

10/089,142 REMARKS

Claims 1 and 12 have been amended above to overcome the Examiner's rejections and incorporate his helpful suggestions in the Action of March 23, 2004. The summary of the telephone interview included with the Action is believed to be complete.

Applicant affirms the telephone provisional election of the invention of Group 1, Claims 1-11. This election is believed to be moot with the amendment of Claim 12 to include the language of Claim 1 in the Preliminary Amendment recently filed after the telephone interview of March 19, 2004.

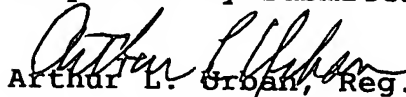
The claims have been rejected under 35 USC 112 as being indefinite (Paragraph 5). The claims have been amended to define formation of a resin matrix within the blanket and formation of adhesive outer surfaces on the blanket. Also, the claims have been amended to specify final substrate surfaces. Further, the claims now provide a positive antecedent for said coated matrix/blanket. In view of the above, it is believed that the rejection under 35 USC 112 should be withdrawn.

Claims 1 - 7 have been rejected under 35 USC 103 as being unpatentable over Payne 5,496,434 (Paragraph 7). Also, the Examiner has stated that there is no suggestion in the art to perform the limitation in Claim 8 in the process taught by Payne '434 (Paragraph 8). Rather than making Claim 8 independent, language from Claim 8 has been added to Claim 1 to provide a main claim on which dependent claims 2 - 11 can depend.

In view of all of the foregoing, together with the preliminary amendment recently filed, it is submitted that the amended claims are in condition for acceptance. The Examiner is encouraged to telephone the undersigned if additional discussion is required. Temporary No. 4/6/04 to 6/9/04, 407-365-7588 1381 Haven Dr., Oviedo, FL 32765.

Clean copies of amended Claims 1,12 are enclosed. Entry of the above amendment, acceptance of the amended claims and allowance of the above application are respectfully solicited.

Respectfully submitted,

  
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Date  
4/6/04

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1           A method of forming a continuous composite structure including the steps of preselecting a first liquid reactive resin forming material, a particulate solid additive material and a porous blanket, mixing said additive particles with  
5       said first liquid resin forming material substantially continuously to form a substantially uniform mixture thereof, encapsulating substantially all of said additive particles with said first liquid resin forming material, advancing said porous blanket through said liquid resin/additive mixture, migrating part  
10       of said mixture through said blanket substantially uniformly to form a continuous resin matrix within said blanket and to form adhesive outer surfaces on said blanket, preselecting a second resin forming material which substantially cures immediately upon application, applying a thin coating of said second resin forming  
15       material over substantially one major adhesive upper surface of said matrix/blanket to form a coated matrix/blanket while allowing an area of said adhesive surface to remain exposed along one edge of said upper surface thereof, positioning a first preselected length of said coated matrix/blanket into a preselected final  
20       configuration while it is flexible and has an adhesive lower surface and an exposed adhesive area along one edge of said upper surface thereof, positioning a second preselected length of said coated matrix/blanket in an overlapping orientation with said exposed adhesive area of said first positioned length of said  
25       coated matrix/blanket, tightly affixing said adhesive lower surface of said second length to said exposed adhesive area of said first length, and successively positioning and tightly affixing together a plurality of additional lengths of said coated matrix/blanket in overlapping orientation to form a substantially  
30       continuous composite structure with high strength and exceptional durability.

12 A system including a mobile continuous structure forming apparatus including a supporting portion, a material supplying portion, a mixing portion, a matrix forming portion and a control portion; said supporting portion including  
5 a plurality of spaced upstanding frame members, a plurality of generally horizontally disposed frame members joining adjacent upper and lower ends of said upstanding frame members; said material supplying portion including a plurality of reservoirs including a first liquid reactive resin forming material and a  
10 particulate solid additive material, said reservoirs operatively connected with said supporting portion, said reservoirs being connected independently with said mixing portion; said mixing portion including an elongated mixing chamber adjustably disposed adjacent said supporting portion to mix said additive particles  
15 with said first liquid resin forming material substantially continuously and form a substantially uniform mixture thereof while encapsulating substantially all of said additive particles with said first liquid resin forming material; said matrix forming portion including first mixture distributing means extending  
20 adjustably downwardly from said mixing chamber and being disposed adjacent an outlet thereof to advance a porous blanket through said liquid resin/additive mixture and migrate part of said mixture through said blanket substantially uniformly and form a continuous resin matrix within said blanket and form adhesive  
25 outer surfaces on said blanket, second mixture distributing means disposed adjacent said first mixture distributing means for applying a thin coating of a preselected substantially immediately curing resin forming material over a final substrate surface, positioning means disposed adjacent said second mixture  
30 distributing means for placement of a structure in a preselected final configuration and advance a coated matrix/blanket into a final configuration on said coated substrate surface, said positioning means including a cantilevered extendable arm assembly pivotally connected with said supporting portion, elongated  
35 structure grasping means disposed on said arm assembly, submersible guide means and mixture distributing means disposed adjacent a free end of said arm assembly, pressure applying means disposed adjacent said positioning means applying pressure to said

Claim 12, cont.

matrix/blanket to tightly affix said coated matrix/blanket to said coated substrate surface; said control portion including programmable memory means, coordinating means, sensing means, actuating means, and circuitry transmitting signals from said sensing means to said coordinating means for comparison with said memory means and activation of said actuating means to form and place a continuous structure into a preselected final configuration while it is flexible and adhesive and form a water impervious structure thereon.